

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/055253 A1

(51) International Patent Classification⁷: **H01F 17/00**,
27/28

[GR/GB]; 15C Floyd Road, Charlton, London Greater
London SE7 8AY (GB).

(21) International Application Number:
PCT/GB2004/050035

(74) Agent: **LUCAS, Brian Ronald**; 135 Westhall Road, War-
ingham Surrey CR6 9HJ (GB).

(22) International Filing Date: 3 December 2004 (03.12.2004)

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0328072.4 3 December 2003 (03.12.2003) GB

(71) Applicant (*for all designated States except US*): **SOUTH
BANK UNIVERSITY ENTERPRISES LTD.** [GB/GB];
103 BOROUGH ROAD, LONDON Greater London SE1
0AA (GB).

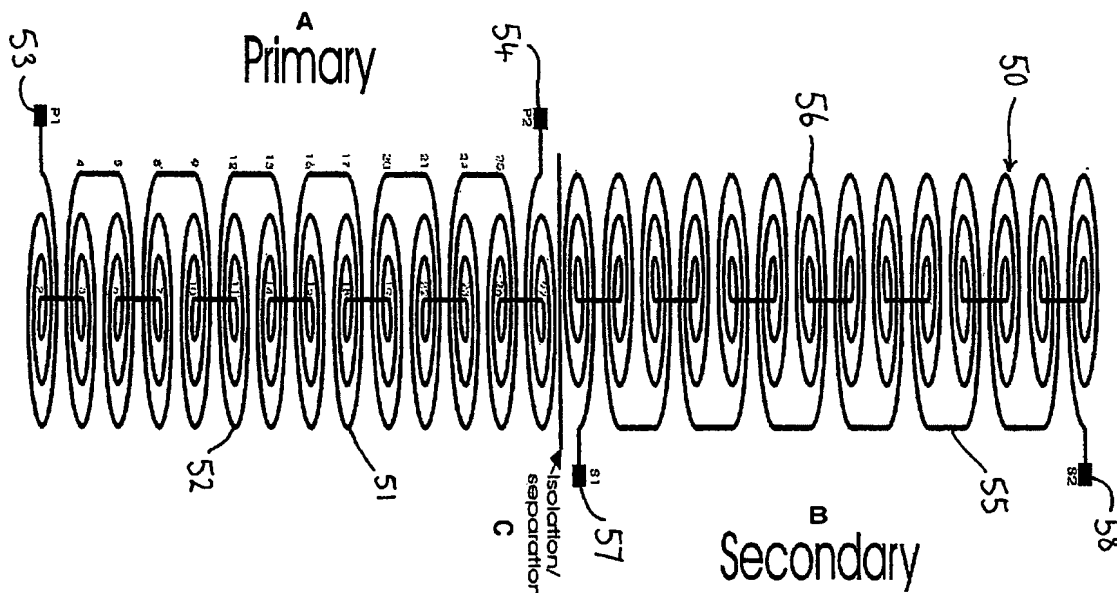
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **ALFORD, Neil
McNeill** [GB/GB]; Flat 3, 33 Compayne Gardens, London
Greater London NW6 3DD (GB). **SALINAS FLORES,
Ener Orlando** [PE/GB]; 201 Norwood Road, London
Greater London SE24 9AF (GB). **DIMITRIOU, Stavros**

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: DSL MODEM AND TRANSFORMER



(57) Abstract: A digital subscriber line (DSL) modem comprising a line interface transformer (40; 50; 80; 100; 130) having a primary circuit (42; 52; 81; 131) for coupling to a transmission line and a secondary circuit (44; 56; 82; 132) for outputting a signal transmitted over said transmission line, each circuit being formed of a continuous electrically conductive material and in which the primary circuit defines a first plane and the secondary circuit defines a second plane, said first and second planes substantially parallel to one another.

WO 2005/055253 A1



Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.